

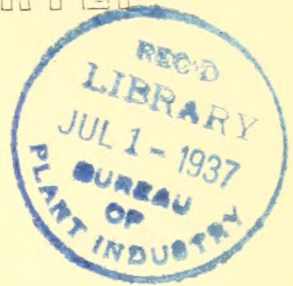
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THE PLANT DISEASE REPORTER

Issued By

Division of Mycology and Disease Survey

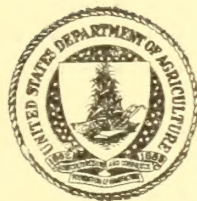


Supplement 100

Crop Losses from Plant Diseases in the United States

1936

June 10, 1937.



BUREAU OF PLANT INDUSTRY

UNITED STATES DEPARTMENT OF AGRICULTURE

CROP LOSSES FROM PLANT DISEASES IN THE UNITED STATES IN 1936

Compiled by

H. A. Edson and Jessie I. Wood

Plant Disease Reporter
Supplement 100

June 10, 1937

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FOREWORD

These estimates have been computed ~~and are~~ presented in the same manner as in previous years (Plant Disease Reporter Supplement 94, 1936). Additions and corrections will be gladly received and revisions will be published in the Reporter.

It may be well to call attention again to the fact that States from which no estimates for a particular crop are received are left out of the calculations for the percentage loss for the country as a whole. This results in a figure that may in some cases be greater, in others smaller, depending upon the crop and the disease, than would be the case if estimates were available from all States. Such completeness is at present not attainable and it is thought that a figure more representative for the country as a whole is obtained in this manner than if the estimates were diluted with the production for States not reporting.

The fact that these estimates are not claimed to be exact may also be emphasized again. In some cases, it is true, counts have been made on which a fairly accurate estimate can be based. In most cases, however, the figures are the result of the combined judgment of pathologists in the various States, based upon their individual observations and reports they have received. If these estimates are sincerely made they do permit comparison of one year with another, which is their main purpose and is all that is claimed for them. If we wait until really exact estimates are obtainable, a record that is of considerable comparative value will have been lost in the meantime.

Comparison of these estimates with those for 1935 show some considerable variations. Some of the more interesting are as follows:

Crop and Disease	Percent loss	
	1935	1936
Wheat, stem rust	23.	0.4
Barley, stem rust	10.	t
Barley, scab	3.5	t
Oats, crown rust	8.	0.5
Field corn, ear rots		
except Diplodia	2.8	7.6
Field corn, stalk rots		
except Diplodia	1.1	3.3
Field corn, Diplodia	1.3	2.5
Apple, scab	14.1	2.8
Pear, blight	13.6	1.6
Peach, leaf curl	4.3	0.2
Cherry, leaf spot	11.9	0.4
Grape, black rot	8.5	3.1

Table 1. Estimated reduction in yield of wheat due to scab (Gibberella saubinetii), leaf rust (Puccinia rubigo-vera tritici), stem rust (P. graminis), bunt (Tilletia spp.), loose smut (Ustilago tritici), foot rots (various organisms), and other diseases, 1936.

Estimated reduction in yield of wheat due to diseases													
State	Production: 1,000 Bushels	Scab % : 1,000 : Bushels	Leaf Rust % : 1,000 : Bushels	Stem Rust % : 1,000 : Bushels	Bunt % : 1,000 : Bushels	Loose Smut % : 1,000 : Bushels	Foot Rot % : 1,000 : Bushels	Diseases All : 1,000 : Bushels					
Maine	119	+	-	t	-	-	-	+					
Mass.		-	+	1.	-	-	t	+					
*N. Y.	5,743	-	-	-	-	-	-	-					
*N. J.	1,281	-	-	-	-	-	-	-					
Pa.	19,615	+	13.	368	1.5	369	5.3	1,373					
Ohio	40,278	+	0.1	41	t	+	1.	409					
Ind.	31,042	0.	0.	0	t	+	t	+					
Ill.	36,435	0.	0.5	196	t	+	0.9	352					
Mich.	16,702	0.1	0.1	19	t	+	5.	932					
Wis.	1,469	t	5.	80	t	+	1.	16					
Minn.	18,721	0.	t	+	t	+	0.5	96					
Iowa	9,440	0.5	1.	104	0.5	52	1.	104					
Mo.	31,407	-	t	+	t	+	-	-					
N. D.	19,235	t	t	+	t	+	0.3	59					
S. D.	4,286	-	t	+	t	+	-	-					
Nebr.	47,339	-	t	+	t	+	-	-					
Kans.	120,270	t	0.2	248	0.5	621	0.3	373					
Del.	1,419	t	0.5	7	-	-	t	+					
Md.	8,980	1.	0.7	66	0.	0	2.	188					
Va.	7,862	0.5	2.5	217	2.	174	1.	87					
W. Va.	2,025	t	0.5	11	1.	23	2.	45					
N. C.	5,194	2.	3.	185	-	-	1.	62					
*S. C.	1,472	-	-	-	-	-	-	-					
Ga.	1,560	-	5.	87	0.1	2	2.	35					
Ky.	5,894	t	t	+	t	+	2.	122					
*Tenn.	4,858	-	-	-	-	-	-	-					
*Ala.	54	-	-	-	-	-	-	-					

Wheat (Continued)

Production:		Estimated reduction in yield of wheat due to diseases										All	
State	1,000 Bushels	Scab	Leaf Rust	Stem Rust	Bunt	Loose Smut	Foot Rots	Diseases					
		% : Bushels	% : Bushels	% : Bushels	% : Bushels	% : Bushels	% : Bushels	% : Bushels	% : Bushels	% : Bushels	% : Bushels	% : Bushels	% : Bushels
Ark.	595	-	t	+	t	+	t	+	+	6	-	-	6
Okla.	27,520	0.5	1.5	464	t	+	3.	928	1.	618	1.	309	11.
Texas	18,927	t	2.	421	t	+	0.1	21	4.	421	4.	842	10.1
Mont.	13,626	0.	t	+	t	+	2.	288	0.3	43	3.	432	5.3
Idaho	21,096	0.	t	+	2.	454	5.	1,134	-	-	t	+	7.
Wyo.	1,164	0.	t	+	t	+	1.5	18	t	+	t	+	1.5
Colo.	10,691	0.	t	+	1.	111	3.	334	t	+	0.	0	4.
*N. M.	1,023	0.	-	-	-	-	-	-	-	-	-	-	-
*Ariz.	1,104	0.	-	-	-	-	-	-	-	-	-	-	-
Utah	4,477	0.	0.	0	5.	259	5.	259	2.	104	0.5	26	13.5
*Nev.	274	0.	-	-	-	-	-	-	-	-	-	-	-
*Wash.	46,193	0.	-	-	-	-	-	-	-	-	-	-	-
Oreg.	20,340	0.	0.1	22	t	+	2.	432	t	+	3.5	757	5.9
*Calif.	16,731	0.	-	-	-	-	-	-	-	-	-	-	-
U. S.	626,461	0.1	1.	5,536	0.4	2,085	1.2	7,160	1.1	6,542	1.	5,658	5.7
													32,724

* Omitted in calculations for U. S. percentage loss.

Table 2. Estimated reduction in yield of barley due to stripe (Helminthosporium gramineum), spot blotch (Pyrenophora teres), loose smut (Ustilago spp.), covered smut (Ustilago hordei), scab (Cibberella saubinetii), stem rust (Puccinia graminis), and other diseases, 1936.

Estimated reduction in yield of barley due to diseases																
: Production:		Stripe		Spot Blotch		Loose Smut		Covered Smut		Scab		Stem Rust		All Diseases		
State	1,000	: 1,000	: Bushels	: 1,000	: Bushels	: 1,000	: Bushels	: 1,000	: Bushels	: 1,000	: Bushels	: 1,000	: Bushels	: 1,000	: Bushels	
: Bushels	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	
Maine	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vt.	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mass.		0	0	0	1	0	0.5	+	+	-	1	+	+	5	+	
Conn.		-	-	-	-	-	-	+	+	-	-	-	-	1	+	
N. Y.	2,718	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N. J.	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pa.	1,764	0.5	10	1	20	2.3	46	6.7	134	+	+	+	+	11.5	230	
Ohio	520	1	5	-	0.1	1	1	t	+	+	+	+	+	1.1	6	
Ind.	380	t	+	-	-	t	+	t	+	-	-	0	0	t	+	
Ill.	2,700	-	-	-	-	-	-	-	-	-	-	0	0	-	-	
Mich.	3,580	0.1	4	0.1	4	0.2	7	0.2	7	0.1	4	+	+	0.7	26	
Wis.	17,896	0.5	95	1	191	3	572	0.7	134	t	+	+	+	6.2	1,183	
Minn.	31,620	0.5	155	t	+	1	329	1.5	494	0	0	0	0	4	1,317	
Iowa	7,056	3	231	1	77	0.5	39	1	77	t	+	+	+	8.5	655	
Mo.	1,360	-	-	-	-	4	57	1	14	t	+	0	0	5	71	
N. D.	4,522	t	+	t	+	0.5	23	t	+	0	0	0	0	1	46	
S. D.	8,977	3	281	-	-	1	94	t	+	-	-	0	0	4	375	
Nebr.	5,520	-	-	-	-	-	-	-	-	-	-	+	+	-	-	
Kans.	4,004	t	+	t	+	3	133	7	311	t	+	+	+	10	444	
Del.		t	+	-	-	-	-	t	+	-	-	-	-	-	-	
Md.	1,000	0.5	5	-	-	2	22	3	32	2	22	+	+	7.5	81	
Va.	900	3	31	1	10	3	31	2.5	26	t	+	15	15	12	123	
W. Va.	112	1	1	-	-	2.5	3	3	4	-	-	+	+	8.5	10	
N. C.	153	1	2	1	2	2	3	1	2	1	2	-	-	8	14	
Ga.		0.1	+	-	-	1	+	2	+	-	-	-	-	5.1	+	
Ky.	440	-	-	-	-	3	14	3	14	t	+	+	+	6	28	

Barley (Continued)

Estimated reduction in yield of barley due to diseases															
Production:	Stripe	Spot Blotch	Loose Smut	Covered Smut	Scab	Stem Rust	All Diseases								
State	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels								
*Tenn.	432	-	-	-	-	-	-								
Ark.		t	-	8.	+	1.	+								
*Okla.	780	-	-	-	-	-	-								
Texas	1,246	0.5	7	1	27	0.5	7								
Mont.	738	1.	9	0	1.	2.	17								
Idaho	3,432	t	+	0.	0.	0.5	17								
Wyo.	770	t	+	-	-	2.	16								
Colo.	6,600	t	+	0.	0.	3.	213								
*N. M.	126	-	-	-	-	-	-								
*Ariz.	726	-	-	-	-	-	-								
Utah	1,739	t	+	-	-	2.	36								
*Nev.	224	-	-	-	-	-	-								
*Wash.	2,100	-	-	-	-	-	-								
Oreg.	2,970	t	+	0.3	9	+	0.2								
*Calif.	29,925	-	-	-	-	-	-								
U. S.	147,452	0.8	846	0.3	514	1.5	1,561								

* Omitted in calculations for U. S. percentage loss.

Table 3. Estimated reduction in yield of rye due to smut (Urocystis occulta), ergot (Claviceps purpurea), leaf rust (Puccinia rubigo-vera secalis), stem rust (P. graminis), and other diseases, 1936.

		Estimated reduction in yield of rye due to diseases									
: Production:		Smut		Ergot		Leaf Rust		Stem Rust		All Diseases	
State:	1,000	: 1,000	: 1,000	: 1,000	: 1,000	: 1,000	: 1,000	: 1,000	: 1,000	: 1,000	
	: Bushels	: %	: Bushels	: %	: Bushels	: %	: Bushels	: %	: Bushels	: %	: Bushels
Mass.:		0.	0	1.	+	1.	+	2.	+	7.	+
R. I.:		-	-	-	-	5.	+	-	-	5.	+
Conn.:		-	-	-	-	1.	+	-	-	2.	+
N.Y.:	304	-	-	-	-	-	-	-	-	-	-
N.J.:	368	-	-	-	-	-	-	-	-	-	-
Pa.:	1,260	t	+	t	+	6.	85	t	+	11.	156
Ohio:	702	t	+	0.1	+	0.5	4	t	+	0.6	4
Ind.:	1,188	0.	0	t	+	0.	0	0.	0	t	+
Ill.:	862	t	+	0.	0	t	+	0.	0	t	+
Mich.:	1,622	t	+	t	+	t	+	t	+	0.5	8
Wis.:	2,100	t	+	t	+	3.	65	t	+	3.5	76
Minn.:	4,325	t	+	t	+	0.	0	0.	0	t	+
Iowa:	1,050	t	+	t	+	t	+	t	+	1.	11
Mo.:	225	-	-	-	-	t	+	0.	0	t	+
N. D.:	2,448	0.	0	t	+	0.	0	0.	0	t	+
S. D.:	1,608	-	-	2.	33	-	-	0.	0	2.	33
Nebr.:	3,442	-	-	-	-	-	-	0.	0	-	-
Kans.:	609	-	-	-	-	0.	0	0.	0	0.	0
Del.:	46	-	-	-	-	t	+	-	-	t	+
Md.:	188	-	-	-	-	-	-	-	-	-	-
Va.:	418	-	-	t	+	1.	4	1.	4	2.5	10
W. Va.:	104	t	+	t	+	0.5	+	0.	0	4.	4
N. C.:	390	-	-	-	-	t	+	-	-	8.	34
*S. C.:	75	-	-	-	-	-	-	-	-	-	-
Ga.:	99	-	-	-	-	0.1	+	-	-	3.1	3
*Ky.:	198	-	-	-	-	-	-	-	-	-	-
*Tenn.:	176	-	-	-	-	-	-	-	-	-	-
Ark.:		-	-	-	-	t	+	t	+	t	+
*Okla.:	144	-	-	-	-	-	-	-	-	-	-
Texas:	28	t	+	0.	0	1.	+	t	+	6.	2
Mont.:	90	0.	0	t	+	0.	0	0.	0	t	+
*Idaho:	88	-	-	-	-	-	-	-	-	-	-
Wyo.:	138	-	-	-	-	-	-	t	+	t	+
*Colo.:	232	-	-	-	-	-	-	0.	0	-	-
*Utah:	12	-	-	-	-	-	-	-	-	-	-
*Wash.:	189	-	-	-	-	-	-	-	-	-	-
Oreg.:	700	0.	0	t	+	0.1	1	t	+	0.4	3
*Calif.:	126	-	-	-	-	-	-	-	-	-	-
U. S.:	25,554	t	+	0.2	33	0.8	159	t	4	1.7	344

*Omitted in calculations for U. S. percentage loss.

Table 4. Estimated reduction in yield of oats due to smuts (*Ustilago avenae* and *U. levis*), stem rust (*Puccinia graminis*), crown rust (*P. coronata*), and other diseases, 1936.

	Estimated reduction in yield due to diseases									
	Production:	Smuts		Stem Rust		Crown Rust		All Diseases		
State	1,000	1,000		1,000		1,000		1,000		1,000
	Bushels	%	Bushels	%	Bushels	%	Bushels	%	Bushels	
Maine	4,130	5.	217	-	-	-	-	5.	217	
N.H.	342	1.	3	-	-	-	-	1.	3	
*Vt.	2,628	-	-	-	-	-	-	-	-	
Mass.	170	5.	9	1.	2	+	+	6.	11	
*R.I.	64	-	-	-	-	-	-	-	-	
Conn.	162	2.	3	-	-	1.	2	3.5	6	
*N.Y.	18,392	-	-	-	-	-	-	-	-	
*N.J.	1,568	-	-	-	-	-	-	-	-	
Pa.	24,009	10.	2,760	+	+	+	+	13.	3,588	
Ohio	10,535	3.5	1,470	+	+	+	+	3.5	1,470	
Ind.	33,502	2.	786	+	+	-	-	2.	786	
Ill.	99,608	1.5	1,660	+	+	0.5	553	10.	11,067	
Mich.	32,181	1.5	491	+	+	0.1	33	1.7	557	
Wis.	59,520	5.	3,166	+	+	1.	633	6.	3,799	
Minn.	94,376	3.	2,934	+	+	0.	0	3.5	3,423	
Iowa	161,955	2.	3,428	0.5	857	+	+	5.5	9,426	
Mo.	29,330	10.	3,259	+	+	+	+	10.	3,259	
N.D.	4,730	+	+	+	+	+	+	0.5	24	
S.D.	12,712	1.	128	+	+	+	+	1.	128	
*Nebr.	19,067	-	-	+	+	-	-	-	-	
Kans.	32,186	20.	8,047	+	+	+	+	20.	8,047	
Del.	61	0.5	+	-	-	+	+	0.5	+	
Md.	1,131	5.	61	+	+	2.	24	7.	85	
Va.	1,287	3.5	49	1.5	21	2.5	35	8.	112	
W.Va.	1,206	5.	65	+	+	1.	13	7.	91	
N.C.	3,430	2.	75	-	-	3.	113	9.	339	
*S.C.	8,473	-	-	-	-	-	-	-	-	
Ca.	6,928	3.	229	-	-	+	305	9.	687	
*Fla.	128	-	-	-	-	-	-	-	-	
Ky.	1,053	5.	55	0.	0	+	+	5.	55	
*Tenn.	924	-	-	-	-	-	-	-	-	
*Ala.	1,070	-	-	-	-	-	-	-	-	
*Miss.	1,300	-	-	-	-	-	-	-	-	
Ark.	3,075	2.	63	+	+	+	+	2.	63	
La.	1,120	1.	13	3.5	46	10.	132	15.	193	
Okla.	20,320	10.	2,322	+	+	1.5	348	12.5	2,962	
Texas	22,552	4.	1,074	+	+	8.	2,148	16.	4,296	
Mont.	2,244	5.	122	0.	0	0.	0	8.	195	
Idaho	4,716	+	+	+	+	0.	0	+	+	
Wyo.	1,474	5.	78	+	+	-	-	5.	78	
Colo.	4,256	5.	224	+	+	+	+	5.	224	
*N.M.	400	-	-	-	-	-	-	-	-	
*Ariz.	300	-	-	-	-	-	-	-	-	
Utah	1,080	2.	22	+	+	-	-	2.5	28	
*Nev.	76	-	-	-	-	-	-	-	-	
*Wash.	8,517	-	-	-	-	-	-	-	-	
Oreg.	11,482	0.4	49	1.5	185	1.5	185	6.6	813	
*Calif.	4,080	-	-	-	-	-	-	-	-	
U. S.	789,100	3.9	32,862	0.1	1,111	0.5	4,524	6.6	55,977	

* Omitted in calculations for U. S. percentage loss.

FIELD CORN

Table 5. Estimated reduction in yield of field corn due to smut (*Ustilago zeae*), root rots (various organisms), ear rots and stalk rots (various organisms other than *Diplodia*), ear and stalk rots (*Diplodia zeae*), bacterial wilt (*Aplanobacter stewartii*), and other diseases, 1936.

		Estimated reduction in yield due to diseases											
Production:		Smut			Root Rots			Ear Rots			Stalk Rots		
State	1,000 Bushels	1,000 Bushels	%	1,000 Bushels	1,000 Bushels	%	(except Diplodia)	(except Diplodia)	(except Diplodia)	(except Diplodia)	Diplodia	Bacterial Wilt	All Diseases
		1,000 Bushels	%	1,000 Bushels	1,000 Bushels	%	1,000 Bushels	1,000 Bushels	1,000 Bushels	1,000 Bushels	1,000 Bushels	1,000 Bushels	1,000 Bushels
*Maine	468	-	-	-	-	-	-	-	-	-	-	0	-
*N. H.	656	+	t	-	-	-	-	-	-	-	-	-	-
*Vt.	2,964	-	-	-	-	-	-	-	-	-	-	-	-
Mass.	1,638	2.	2.	35	+	t	+	2.	35	0.	0.	0.	105
*R. I.	342	-	-	-	-	-	-	-	-	-	-	-	-
Conn.	1,938	2.	-	40	-	-	-	-	-	-	-	-	50
*N. Y.	19,840	-	-	-	-	-	-	-	-	-	-	-	-
*N. J.	7,373	-	-	-	-	-	-	-	-	-	-	-	-
Pa.	54,572	4.	4.	2,662	+	8.	5,324	5.	3,328	+	+	+	11,980
Ohio	121,605	3.5	3.5	4,528	+	1.	1,294	1.	1,294	0.5	647	+	7,763
Ind.	115,413	0.5	2.	614	2,456	1.5	1,842	1.	1,228	1.	1,228	-	7,368
Ill.	217,751	3.7	6.	14,569	23,626	23.5	92,534	10.	39,376	1.5	5,906	0.	44,717
Mich.	36,750	4.5	-	1,744	-	0.4	155	-	-	0.3	116	0.	2,015
Wis.	44,080	1.5	1.5	715	+	1.	477	5.	2,383	+	+	0.	3,575
Minn.	88,331	7.	1.	6,758	965	0.5	483	t	+	+	+	0.	8,206
Iowa	212,240	5.	3.	13,433	8,060	3.	8,060	0.	0	10.	26,866	0.	56,419
*Mo.	40,032	-	-	-	-	-	-	-	-	-	-	0.	-
N. D.	2,530	1.	t	26	+	0.5	13	0.5	13	-	-	0.	52
S. D.	8,446	10.	-	1,030	-	8.	824	-	-	-	-	0.	1,854
*Nebr.	26,859	-	-	-	-	-	-	-	-	-	-	-	-
Kans.	11,036	1.	t	112	+	0.5	56	t	+	0.	0	0.	168
Del.	4,118	t	1.	+	42	0.5	21	-	-	+	+	-	63
Md.	18,396	-	2.	-	387	1.5	290	1.	194	0.5	97	t	968
Va.	30,014	3.	1.	995	332	1.	332	1.5	497	1.	332	0.5	3,151
W. Va.	11,569	2.	10.	284	1,420	3.	426	1.	142	0.5	71	-	2,627

Estimated reduction in yield due to diseases

* Omitted in calculations for U. S. percentage total.

SWEET CORN

Table 6. Sweet corn for manufacture; estimated reduction in yield of sweet corn due to smut (*Ustilago zeae*), bacterial wilt (*Aplanobacter stewarti*), stalk and ear rots (*Diplodia zeae*), and other diseases, 1936.

State	Production: Short Tons	Estimated reduction in yield due to diseases							
		Smut		Bacterial Wilt		Diplodia		All Diseases	
		Short	%	Short	%	Short	%	Short	%
		Tons		Tons		Tons		Tons	
Maine	60,800	t	+	0.	0	t	+	t	+
*N. H.	2,700	-	-	t	+	-	-	-	-
*Vt.	3,200	-	-	-	-	-	-	-	-
Mass.		6.	+	t	+	2.	+	17.	+
R. I.		t	+	-	-	-	-	-	-
Conn.		3.	+	t	+	-	-	3.5	+
N. Y.	37,300	2.	761	t	+	-	-	2.	761
N. J.		-	-	t	+	-	-	-	-
Pa.	21,100	6.	1,407	t	+	3.	703	10.	2,344
Ohio	37,300	1.	377	0.1	38	t	+	1.1	415
Ind.	39,600	5.	2,084	t	+	t	+	5.	2,084
*Ill.	117,000	-	-	-	-	-	-	-	-
Mich.	5,800	5.	306	0.	0	0.1	6	5.2	318
Wis.	25,200	5.	1,400	t	+	5.	1,400	10.	2,800
Minn.	100,600	7.	7,609	0.	0	t	+	8.	8,696
Iowa	41,200	7.	3,315	t	+	3.	1,421	13.	6,157
N. D.		1.	+	0.	0	-	-	1.5	+
Kans.		t	+	0.	0	0.	0	t	+
Del.	10,600	0.5	54	-	-	-	-	1.	108
Md.	78,200	1.	833	0.1	83	-	-	6.1	5,080
Va.		1.	+	1.5	+	0.5	+	3.5	+
W. Va.		3.	+	3.	+	0.5	+	14.5	+
Ky.		-	-	t	+	-	-	-	-
*Tenn.	6,800	-	-	-	-	-	-	-	-
Texas		10.	+	3.	+	3.	+	21.	+
Idaho		t	+	0.	0	0.	0	t	+
Wyo.		t	+	0.	0	-	-	-	-
Colo.		5.	+	0.	0	0.	0	5.	+
Oreg.		-	-	0.	0	-	-	0.5	+
**Other States	18,300	-	-	-	-	-	-	-	-
U. S.	605,100	3.7	18,146	t	121	0.7	3,530	5.9	28,763

* Omitted in calculations for U. S. percentage loss.

** Includes Colorado, Idaho, Kansas, Kentucky, Missouri, Montana, Oklahoma, Oregon, South Dakota, Texas, Virginia, Washington, and Wyoming.

SWEET POTATO

Table 7. Estimated reduction in yield of sweet potato due to stem rot (*Fusarium* spp.), foot rot (*Plenodomus destruens*), black rot (*Ceratostomella fimbriata*), and other diseases, and estimated loss from storage rots (various organisms), 1936.

Estimated reduction in yield due to diseases											
State:	Production:	Stem Rot	Foot Rot	Black Rot	All Diseases	Storage Rots					
	1,000	1,000	1,000	1,000	1,000	1,000					
	Bushels	%	Bushels	%	Bushels	%	Bushels	%	Bushels	%	Bushels
Conn.:		t	+	-	t	+	-	-	-	-	-
N.J.:	2,400	3.	77	-	2.	52	7.	181	5.	120	
Pa.:		t	+	1.5	+	t	+	1.5	+	2.	+
*Ind.:	320	t	+	-	-	-	-	-	-	-	*
*Ill.:	300	-	-	-	-	-	-	-	-	-	*
Iowa:	225	30.	97	0.	0.	0.	30.3	98	-	-	*
*Mo.:	754	-	-	-	-	-	-	-	-	-	*
Kans.:	240	6.	15	-	t	+	7.	18	4.	10	
Del.:	910	1.	9	-	0.5	5	3.5	33	8.	73	
Md.:	1,200	2.	26	t	+	2.	26	8.	104	8.	96
Va.:	4,366	7.	336	t	+	2.	96	9.	432	10.	437
N.C.:	7,560	15.	1,418	-	-	+	20.	1,891	15.	1,134	
S.C.:	4,845	-	-	-	2.	102	5.	255	-	-	*
Ga.:	6,630	-	-	-	2.	135	2.	135	10.	663	
*Fla.:	1,235	-	-	-	-	-	-	-	-	-	*
Ky.:	1,342	15.	246	-	3.	49	18.	295	2.	268	
*Tenn.:	3,696	-	-	-	-	-	-	-	-	-	*
Ala.:	6,160	-	-	-	2.	126	2.	126	10.	616	
*Miss.:	6,474	t	+	-	-	-	-	-	10.	617	
Ark.:	2,145	2.	45	-	2.	45	4.	90	10.	215	
La.:	7,797	t	+	-	2.	161	3.	211	-	-	*
Okl.:	525	2.	11	3.	17	6	8.	45	20.	105	
Texas:	3,640	1.	46	0.	10.	461	21.	968	12.	437	
*Calif.:	1,380	-	-	-	-	-	-	-	-	-	*
U.S.:	64,144	4.2	2,326	t	17	2.3	1,264	8.9	4,912	11.1	4,821

* Omitted in calculations for U. S. percentage loss.

POTATO

Table 8. Estimated reduction in yield of potato due to mosaic (virus), leaf roll (virus), late blight (*Phytophthora infestans*), *Rhizoctonia* (*Corticium vagum*).

Estimated reduction in yield due to diseases									
Production:									
State	1,000 Bushels	Mosaic	Leaf Roll	Late Blight	Rhizoctonia				
		1,000 Bushels	1,000 Bushels	1,000 Bushels	1,000 Bushels				
		%	%	%	%				
Maine	44,000	2.	1,048	1.	524	6.	3,143	2.	1,048
N. H.	1,666	5.	94	2.	37	1.	19	1.	19
Vt.	2,392	3.	111	5.	185	7.	259	7.	259
Mass.	2,415	3.	93	3.	93	3.	93	8.	248
*R. I.	720	-	-	-	-	-	-	-	-
Conn.	2,839	1.	30	-	-	-	-	0.5	15
*N. Y.	26,400	-	-	-	-	-	-	-	-
*N. J.	9,130	-	-	-	-	-	-	-	-
Pa.	26,268	3.	983	5.	1,638	t	+	2.	655
Ohio	14,040	0.5	86	5.	861	t	+	2.	345
Ind.	4,617	3.	153	2.	102	-	-	0.5	26
*Ill.	2,666	-	-	-	-	-	-	-	-
Mich.	26,125	0.2	64	1.	319	t	+	5.	1,593
Wis.	20,090	t	+	0.	0	0.	0	t	+
Minn.	12,502	5.	781	-	-	0.	0	3.	469
Iowa	3,551	8.	379	7.	331	0.	0	3.	142
*Mo.	2,860	-	-	-	-	-	-	-	-
N. D.	5,170	1.	55	1.	55	0.	0	1.	55
S. D.	783	1.	11	1.	11	0.	0	2.	23
*Nebr.	4,730	-	-	-	-	-	-	-	-
Kans.	1,710	t	+	-	-	-	-	5.	93
Del.	475	0.5	2	0.5	2	-	-	t	+
Md.	2,940	1.5	51	2.	68	0.5	17	2.	68
Va.	7,380	2.	178	2.	178	0.	0	1.	89
W. Va.	1,920	4.	128	12.	384	t	+	4.	128
N. C.	5,986	1.	68	2.	136	t	+	3.	204
*S. C.	1,656	-	-	-	-	-	-	-	-
Ga.	768	1.	9	0.1	1	0.1	1	2.	17
Fla.	2,349	1.	26	-	-	4.	105	2.	53
Ky.	1,692	t	+	t	+	0.	0	5.	91
*Tenn.	1,480	-	-	-	-	-	-	-	-
*Ala.	2,784	-	-	-	-	-	-	-	-
*Miss.	1,088	-	-	-	-	-	-	-	-
*Ark.	2,365	-	-	-	-	-	-	-	-
La.	2,652	3.	83	-	-	-	-	-	-
Okla.	2,112	-	-	-	-	0.	0	0.	0
Texas	2,860	2.	77	1.	38	t	+	1.	38
Mont.	1,520	4.	69	0.	0	0.	0	2.	35
Idaho	22,260	4.	937	t	+	0.	0	t	+
Wyo.	1,365	2.	32	t	+	t	+	3.	48
Colo.	18,500	t	+	0.	0	0.	0	1.	193
*N. M.	450	-	-	-	-	-	-	-	-
*Ariz.	180	-	-	-	-	-	-	-	-
Utah	1,830	3.	68	2.	45	0.	0	8.	182
*Nev.	406	-	-	-	-	-	-	-	-
*Wash.	8,010	-	-	-	-	-	-	-	-
Oreg.	7,310	5.	440	7.	616	t	+	5.	440
*Calif.	12,985	-	-	-	-	-	-	-	-
U. S.	329,997	2.	6,056	1.9	5,624	1.2	3,637	2.2	6,576

* Omitted in calculations for U. S. percentage loss.

POTATO (Continued)

Blackleg (*Bacillus phytophthorus*), Fusarium wilt (*Fusarium* spp.), tipburn and hopperburn (non-parasitic and leaf hopper), early blight (*Alternaria solani*), scab (*Actinomyces scabies*), and other diseases, 1936.

Estimated reduction in yield due to diseases											
State:	Blackleg	Fusarium Wilt	Tipburn and Hopperburn	Early Blight	Scab	All Diseases					
	: 1,000	: 1,000	: 1,000	: 1,000	: 1,000	: 1,000					
	% : Bushels	% : Bushels	% : Bushels	% : Bushels	% : Bushels	% : Bushels					
Maine:	2. : 1,048	- : -	1. : 524	1. : 524	1. : 524	16. : 8,383					
N.H.	1. : 19	- : -	- : -	t : +	1. : 19	11. : 267					
Vt.	0.2 : 7	0.1 : 4	10. : 370	1.5 : 55	1.5 : 55	35.3 : 1,365					
Mass.	t : +	- : -	3. : 93	0.5 : 15	0.5 : 15	22. : 681					
R.I.	- : -	- : -	- : -	- : -	- : -	- : -					
Conn.	1. : 30	0.5 : 15	1. : 30	- : -	1. : 30	5. : 150					
N.Y.	- : -	- : -	- : -	- : -	- : -	- : -					
N.J.	- : -	- : -	- : -	- : -	- : -	- : -					
Pa.	t : +	2. : 655	2. : 655	0.5 : 164	0.3 : 98	19.8 : 6,486					
Ohio	0.5 : 86	2. : 345	6. : 1,034	1.5 : 172	1.5 : 253	18.5 : 3,187					
Ind.	- : -	- : -	- : -	- : -	4. : 204	9.5 : 485					
Ill.	- : -	- : -	- : -	- : -	- : -	- : -					
Mich.	2.5 : 797	1. : 319	5. : 1,593	0.2 : 64	2.5 : 797	18. : 5,737					
Wis.	t : +	t : +	10. : 2,511	5. : 1,256	4. : 1,005	20. : 5,023					
Minn.	t : +	4. : 625	5. : 781	t : +	2. : 313	20. : 2,125					
Iowa	0. : 0	1. : 47	5. : 237	0.5 : 24	0.5 : 24	25. : 1,184					
Mo.	- : -	- : -	- : -	- : -	- : -	- : -					
N.D.	1. : 55	1.5 : 83	0.5 : 28	0. : 0	t : +	6. : 331					
S.D.	t : +	10. : 114	10. : 114	0. : 0	2. : 23	31. : 353					
Nebr.	- : -	- : -	- : -	- : -	- : -	- : -					
Kans.	0.5 : 9	t : +	- : -	- : -	0.5 : 9	8. : 148					
Del.	- : -	t : +	0.5 : 2	0.5 : 2	t : +	2. : 8					
Md.	t : +	1.5 : 51	1. : 34	1. : 34	4. : 136	13.5 : 459					
Va.	1. : 89	- : -	2. : 178	t : +	7. : 622	17. : 1,512					
W.Va.	3. : 96	1. : 32	8. : 256	t : +	0.5 : 16	10. : 1,250					
N.C.	t : +	1. : 68	3. : 204	1. : 68	1. : 68	12. : 816					
S.C.	- : -	- : -	- : -	- : -	- : -	- : -					
Ga.	2. : 17	- : -	1. : 9	5. : 43	0.1 : 1	11.3 : 98					
Fla.	1. : 26	0.5 : 13	- : -	t : +	0.5 : 13	10.5 : 275					
Ky.	t : +	t : +	1. : 18	t : +	0.5 : 9	7. : 127					
Tenn.	- : -	- : -	- : -	- : -	- : -	- : -					
Ala.	- : -	- : -	- : -	- : -	- : -	- : -					
Miss.	- : -	- : -	- : -	- : -	- : -	- : -					
Ark.	t : +	- : -	- : -	- : -	- : -	- : -					
La.	- : -	t : +	- : -	t : +	t : +	4. : 111					
Okla.	3. : 71	5. : 119	- : -	1. : 24	2. : 47	11. : 261					
Texas	0.1 : 4	0.1 : 4	0.5 : 19	5. : 192	10. : 385	25.7 : 988					
Mont.	t : +	2. : 35	t : +	t : +	2. : 35	12. : 209					
Idaho	1. : 234	t : +	0. : 0	t : +	t : +	5. : 1,171					
Wyo.	2. : 32	4. : 63	- : -	t : +	- : -	14. : 223					
Colo.	t : +	1. : 193	0. : 0	2. : 385	t : +	4. : 771					
N.M.	- : -	- : -	- : -	- : -	- : -	- : -					
Ariz.	- : -	- : -	- : -	- : -	- : -	- : -					
Utah	t : +	1. : 23	- : -	t : +	0.5 : 11	19.5 : 443					
Nev.	- : -	- : -	- : -	- : -	- : -	- : -					
Wash.	- : -	- : -	- : -	- : -	- : -	- : -					
Oreg.	t : +	- : -	- : -	t : +	- : -	17. : 1,496					
Calif.	- : -	- : -	- : -	- : -	- : -	- : -					
U.S.	0.9 : 2,620	0.9 : 2,828	2.9 : 8,690	1. : 3,022	1.6 : 4,717	15.7 : 47,033					

TOMATOES

Table 9. Tomatoes for manufacture; estimated reduction in yield due to blight (Septoria lycopersici), Fusarium wilt (Fusarium lycopersici), early blight (Alternaria solani), nailhead spot (Macrosporium tomato), blossom-end rot (non-parasitic), curly-top (virus), and other diseases, 1936.

Estimated reduction in yield due to diseases													
Production	Septoria	Fusarium	Bacterial	Early	Nailhead	Blossom-end							All
State: Short	Blight	Wilt	Wilt	Blight	Spot	Rot	Curly-top	Diseases					
Tons	%	Short	Tons	%	Short	Tons	%	Short	Tons	%	Short	Tons	%
Conn.	1.	+	0.5	-	1.	+	-	-	-	0.	0:	4.5	+
*N.Y.	t	+	-	-	t	+	-	-	-	0.	0:	-	-
*N.J.	-	-	-	-	-	-	-	-	-	0.	0:	-	-
Pa.	1.	1,277	2.	2,553	1.	1,277	8.	10,214	-	-	12.	15,321	0.
Ohio	t	+	3.	2,612	0.5	435	1.	871	0.5	435	2.	1,741	0.
Ind.	-	-	1.5	5,994	-	-	4.	15,983	-	-	-	-	0.
Ill.	t	+	1.	302	t	+	2.	604	-	-	-	-	0.
Mich.	3.	951	t	+	0.	0:	t	+	-	-	5.	1,584	0.
Wis.	10.	+	t	+	0.	0:10.	+	+	t	+	2.	+	0.
Minn.	t	+	t	+	0.	0:	t	+	0.	0:	3.	+	0.
Iowa	1.	103	t	+	0.	0:	0.	0:	0.	0:	8.	827	0.
*Mo.	-	-	-	-	-	-	-	-	-	-	-	-	0.
Kans.	-	-	1.	+	-	-	-	-	-	-	-	-	0.
Del.	1.	633	0.5	317	-	-	t	+	-	-	t	+	0.
Md.	0.1	386	1.	3,857	t	+	5.2	20,057	-	-	5.	19,286	0.
Va.	1.	68	10.	684	3.	205	2.	137	0.	0:	0.	0:	0.
W.Va.	1.	+	2.	+	-	-	t	+	-	-	3.	+	0.
N.C.	3.	+	3.	+	5.	+	-	-	2.	+	5.	+	0.
Ga.	0.1	+	7.	+	0.1	+	5.	+	0.1	+	30.	+	0.
Fla.	-	-	2.	+	t	+	3.	+	1.5	+	-	-	0.
Ky.	t	+	3.	211	0.	0:	0.	0:	t	+	15.	1,056	0.
*Tenn.	-	-	-	-	-	-	-	-	-	-	-	-	0.
Miss.	-	-	1.	+	1.	+	1.	+	-	-	20.	+	0.
Ark.	t	+	t	+	-	-	t	+	-	-	2.	47	0.
Ia.	t	+	3.	+	t	+	2.	+	-	+	t	+	0.

Tomatoes (Continued)

[illegible]

• Short tons, 2,000 pounds.

* Omitted in calculations for U. S. percentage loss.

**** Includes Alabama, Connecticut, Florida, Georgia, Idaho, Kansas, Louisiana, Minnesota, Mississippi, Nebraska, New Mexico, North Carolina, Oklahoma, Oregon, South Carolina, Texas, Washington, West Virginia, and Wisconsin.**

TOMATOES

Table 10. Tomatoes for market; estimated reduction in yield due to blight (*Septoria lycopersici*), Fusarium wilt (*Fusarium lycopersici*), early blight (*Alternaria solani*), nailhead spot (*Macrosporium tomatum*), blossom-end rot (non-parasitic), curly-top (virus), and other diseases, 1936.

Production		Estimated reduction in yield due to diseases											
State	1,000 Bushels	Septoria Blight	Fusarium Wilt	Bacterial Wilt	Early Blight	Nailhead Spot	Blossom-end Rot	Curly-top	Diseases	All			
		%	%	%	%	%	%	%	%	%	%	%	%
Maine		t	+	-	-	-	-	-	-	-	-	-	-
Mass.		1.	+	0.	7.	-	-	-	-	-	-	-	-
R.I.		t	-	-	10.	1.	-	-	-	-	-	-	-
Conn.		1.	+	0.5	-	1.	-	-	-	-	-	-	-
*N.Y.	1,332	t	+	-	-	-	-	-	-	-	-	-	-
*N.J.	2,310	-	-	-	-	-	-	-	-	-	-	-	-
Pa.	430	1.	6	2.	12	1.	6	8.	47	-	-	-	-
Ohio	352	t	+	3.	12	0.5	2	1.	4	0.5	12.	71	0.
Ind.	560	-	-	1.5	9	-	-	4.	24	-	2.	8	0.
Ill.	52	t	+	1.	1	t	+	2.	1	-	-	-	0.
Mich.	480	3.	16	t	+	0.	0	t	+	-	5.	27	0.
Wis.	10.	+	+	t	+	0.	0	10.	+	t	2.	+	0.
Minn.		t	+	t	+	0.	0	t	+	0.	3.	+	0.
Iowa	35	1.	+	t	+	0.	0	0.	0	0.	8.	3	0.
*Mo.	200	-	-	-	-	-	-	-	-	-	-	-	-
N.D.		t	+	t	+	t	+	t	+	0.	2.	+	0.
Kans.		-	-	-	-	-	-	-	-	-	-	-	0.
Del.	25	1.	+	0.5	+	-	-	-	+	-	-	+	0.
Md.	1,160	0.1	2	1.	15	t	+	5.2	78	-	5.	75	0.
Va.	420	1.	5	10.	52	3.	16	2.	10	0.	0.	0	0.
W.Va.		1.	+	2.	+	-	-	t	+	-	3.	+	0.
N.C.	69	3.	3	3.	3	5.	5	-	-	2.	5.	5	0.
*S.C.	315	-	-	-	-	-	-	-	-	-	-	-	-
Ga.	105	0.1	+	7.	14	0.1	+	5.	10	0.1	30.	60	0.
Fla.	2,470	-	-	2.	54	t	+	3.	81	1.5	-	-	0.

Tomatoes (Continued)

Production		Estimated reduction in yield due to diseases												All	
State	1,000 Bushels	Septoria Blight	Fusarium wilt	Bacterial wilt	Early Blight	Spot	Rot	Blossom-end	Curly-top	Diseases					
		% Bushels	% Bushels	% Bushels	% Bushels	% Bushels	% Bushels	% Bushels	% Bushels	% Bushels	% Bushels	% Bushels	% Bushels	% Bushels	% Bushels
Ky.	162	t	3	6	0	0	0	t	15	30	0	0	19	38	
*Tenn.	693	-	-	-	-	-	-	-	-	-	0	0	-	-	
Miss.	1,009	-	1	15	1	15	1	-	20	301	0	0	33	497	
Ark.	140	t	t	+	-	+	+	-	2	3	0	0	2	3	
La.	132	t	3	4	t	+	3	-	t	+	0	0	6	8	
Okla.	3	3	20	+	2	+	+	0.5	3	+	0	0	29.5	+	
Texas	3,075	3	110	183	0.5	18	2	73	5	183	0.5	18	16	585	
Mont.	0	0	t	+	0	0	0	0	t	+	t	+	3	+	
Idaho	0	0	0	0	0	0	0	0	2	+	25	+	27	+	
Colo.	475	t	+	+	0	0	2	11	1	5	3	16	13	70	
Utah	88	-	t	+	-	-	-	-	t	+	12	13	18	19	
*Wash.	384	-	-	-	-	-	-	-	-	-	-	-	-	-	
Oreg.	225	-	-	-	-	-	-	-	-	-	-	-	-	-	
*Calif.	3,644	-	-	-	-	-	-	-	-	-	-	-	-	-	
U. S.	20,346	1	142	350	0.4	62	2.6	357	9.3	771	0.7	102	17	2,372	

° Bushels of 53 pounds.

* Omitted in calculations for U. S. percentage loss.

SNAP BEANS

Table 11. Snap beans for manufacture; estimated reduction in yield due to anthracnose (Colletotrichum lindemuthianum), bacterial blights (Bacterium spp.), mosaic (virus), root rots (various organisms), rust (Uromyces phaseoli typica), and other diseases, 1936.

:Production:		Reduction in yield due to diseases											
:tion:		:Anthrac-:		:Bacterial:		:Mosaic:		:Root Rots:		:Rust:		:All	
State: Short:		nose		Blights:		Mosaic		Root Rots:		Rust		Diseases	
:Tons:		:Short:		:Short:		:Short:		:Short:		:Short:		:Short	
:		: % :		: % :		: % :		: % :		: % :		: % :	
:		:Tons:		:Tons:		:Tons:		:Tons:		:Tons:		:Tons	
:		:		:		:		:		:		:	
Maine:	2,900	t	+	t	+	-	-	t	+	t	+	t	+
N.H.:		t	+	-	-	-	-	-	-	t	+	t	+
N.Y.:	10,400	t	+	0.5	54	1.5	162	1.5	162	t	+	3.5	378
N.J.:		-	-	-	-	-	-	-	-	1.	+	1.	+
Pa.:	2,200	4.	104	0.5	13	4.	104	5.	130	1.	26	15.5	403
Ohio:		1.	+	0.5	+	1.	+	0.5	+	t	+	3.	+
Ind.:	1,100	-	-	1.	11	-	-	-	-	-	-	1.	11
Ill.:		0.3	+	0.3	+	10.	+	1.	+	-	-	11.6	+
Mich.:	6,500	0.	0	2.5	167	0.	0	0.1	7	0.	0	2.7	181
Wis.:	5,000	0.	0	1.	53	5.	266	t	+	0.	0	6.	319
Minn.:		t	+	2.	+	3.	+	t	+	0.	0	6.	+
Iowa:		t	+	2.	+	0.	0	0.	0	0.	0	3.	+
Del.:	1,100	t	+	-	-	-	-	t	+	-	-	t	+
Md.:	13,500	t	+	1.	141	0.5	70	2.5	352	-	-	4.1	577
Va.:		0.	0	3.	+	2.	+	3.	+	10.	+	28.	+
N.C.:		t	+	2.	+	2.	+	9.	+	1.	+	22.	+
*S.C.:	100	-	-	-	-	-	-	-	-	-	-	-	-
Ga.:		1.	+	-	-	-	-	-	-	2.	+	3.	+
Fla.:		t	+	t	+	-	-	t	+	5.	+	5.	+
Ky.:		0.	0	t	+	3.	+	t	+	t	+	4.	+
*Tenn.:	1,200	-	-	-	-	-	-	-	-	-	-	-	-
Miss.:	1,800	t	+	1.	19	1.	19	-	-	-	-	4.	76
*Ark.:	400	-	-	-	-	-	-	-	-	-	-	-	-
La.:	700	t	+	4.	30	-	-	2.	15	t	+	6.	45
Okla.:		-	-	50.	+	10.	+	8.	+	-	-	78.	+
Texas:		t	+	5.	+	8.	+	6.	+	t	+	24.	+
Mont.:		0.	0	1.	+	5.	+	1.	+	0.	0	7.	+
Idaho:		0.	0	t	+	10.	+	5.	+	0.	0	25.	+
Colo.:	1,400	0.	0	20.	354	t	+	t	+	1.	18	21.	372
Utah:	2,000	-	-	t	+	2.	41	t	+	0.5	10	2.5	51
*Wash.:	2,800	-	-	-	-	-	-	-	-	-	-	-	-
Oreg.:	7,600	-	-	-	-	-	-	-	-	-	-	5.	400
Calif.:	3,700	-	-	-	-	-	-	-	-	1.	37	1.	37
+Other:		:	:	:	:	:	:	:	:	:	:	:	:
States:	6,200	:	:	:	:	:	:	:	:	:	:	:	:
U.S.:	70,600	0.2	104	1.3	842	1.1	662	1.1	666	0.1	91	4.6	2,850

* Omitted in calculations for U. S. percentage loss.

+ Includes Alabama, Georgia, Florida, Idaho, Illinois, Iowa, Kansas, Kentucky, Minnesota, Missouri, Montana, Nebraska, New Hampshire, New Jersey, North Carolina, Ohio, Oklahoma, Texas, Vermont, Virginia, West Virginia, and Wyoming.

Table 12. Snap beans for market; estimated reduction in yield due to Anthraconose (Colletotrichum lindemuthianum), bacterial blights (Bacterium spp.), mosaic (virus), root rots (various organisms), rust (Uromyces phaseoli typica), and other diseases, 1936.

: Product:		Reduction in yield due to diseases											
: tion:		Anthrac-	Bacterial:									All	
State:	1,000	rose	Plights	Mosaic	Root Rots:	Pust	Diseases						
: Bushels:	: 1,000:	: 1,000:	: 1,000:	: 1,000:	: 1,000:	: 1,000:	: 1,000:						
:	% Bushels:	% Bushels:	% Bushels:	% Bushels:	% Bushels:	% Bushels:	% Bushels:						
Maine:	t	+	t	+	-	-	t	+	t	+	t	+	
N.H.:	t	+	-	-	-	-	-	-	t	+	t	+	
Mass.:	0.5:	+	3.	+	2.	+	6.	+	t	+	11.5:	+	
Conn.:	t	+	t	+	t	+	-	-	0.5:	+	1.	+	
N.Y.:	232	t	+	0.5:	1	1.5:	4	1.5:	4	t	+	3.5:	
N.J.:	1,341	-	-	-	-	-	-	-	1.	14	1.	14	
Pa.:	284	4.	13	0.5:	2	4.	13	5.	17	1.	3	15.5:	
Ohio:		1.	+	0.5:	+	1.	+	0.5:	+	t	+	3.	
Ind.:		-	-	1.	+	-	-	-	-	-	-	1.	
Ill.:	54	0.3:	+	0.3:	+	10.	6	1.	1	-	-	11.6:	
Mich.:	51	0.	0	2.5:	1	0.	0	0.1:	+	0.	0	2.7:	
Wis.:		0.	0	1.	+	5.	+	t	+	0.	0	6.	
Minn.:		t	+	2.	+	3.	+	t	+	0.	0	6.	
Iowa:		t	+	2.	+	0.	0	0.	0	0.	0	3.	
N.D.:		t	+	0.5:	+	2.5:	+	t	+	0.	0	3.	
Del.:	18	t	+	-	-	-	-	t	+	-	-	t	
Md.:	322	t	+	1.	3	0.5:	2	2.5:	8	-	-	4.1:	
Va.:	617	0.	0	3.	26	2.	17	3.	26	10.	86	28.	
W.Va.:		1.	+	5.	+	2.	+	2.	+	t	+	10.	
N.C.:	369	t	+	2.	10	2.	10	9.	43	-	-	23.	
*S.C.:	190	-	-	-	-	-	-	-	-	-	-	-	
Ga.:	202	1.	2	-	-	-	-	-	2.	4	3.	6	
Fla.:	4,300	t	+	10.	694	-	-	1.	69	22.	1,26	38.	
Ky.:		0.	0	t	+	3.	+	t	+	+	+	4.	
*Tenn.:	49	-	-	-	-	-	-	-	-	-	-	-	
*Ala.:	25	-	-	-	-	-	-	-	-	-	-	-	
Miss.:	430	t	+	1.	1	4	-	-	-	-	-	4.	
*Ark.:	71	-	-	-	-	-	-	-	-	-	-	-	
La.:	756	t	+	4.	32	-	-	2.	16	t	+	6.	
Okla.:		-	-	50.	+	10.	+	8.	+	-	-	78.	
Texas:	538	t	+	5.	35	8.	57	6.	42	t	+	24.	
Mont.:		0.	0	1.	+	5.	+	1.	+	0.	0	7.	
Idaho:		0.	0	t	+	10.	+	5.	+	0.	0	25.	
Wyo.:		0.	0	5.	+	5.	+	4.	+	-	-	14.	
Colo.:	300	0.	0	20.	76	t	+	t	+	1.	4	21.	
N.M.:		0.	0	-	-	-	-	-	-	1.	+	1.	
Utah:		0.	0	t	+	2.	+	t	+	-	-	2.5:	
Oreg.:		0.	0	-	-	-	-	-	-	-	-	5.	
Calif.:	1,870	0.	0	-	-	-	-	-	-	1.	19	1.	
U.S.:	12,019	0.1:	15	5.9:	884	0.7:	113	1.5:	226	11.	1,656	22.7:	

* Bushels of 30 pounds.

* Omitted in calculations for U. S. percentage loss.

DRY BEANS

Table 13. Estimated reduction in yield of dry beans due to anthracnose (*Colletotrichum lindemuthianum*), bacterial blights (*Bacterium* spp.), mosaic (virus), root rots (various organisms), rust (*Uromyces phaseoli typica*), and other diseases, 1936.

Production		Estimated reduction in yield due to diseases											
State	1,000	Anthracnose	Bacterial Blight	Mosaic	Root Rots	Rust	All Diseases	1,000	1,000	1,000	1,000	1,000	1,000
	Bags	%	%	%	%	%	%	Bags	%	Bags	%	Bags	%
Maine	70	t	+	t	+	t	+	t	+	t	+	t	+
*Vt.	18	-	-	-	-	-	-	-	-	-	-	-	-
N.Y.	852	t	+	0.5	4	1.5	13	1.5	13	t	+	3.5	30
Mich.	2,656	0.	0	2.5	68	0.	0	0.1	3	0.	0	2.7	74
Wis.	12	0.	0	1.	+	5.	1	t	+	0.	0	6.	1
Minn.	6	t	+	2.	+	3.	+	t	+	0.	0	6.	+
*Nebr.	113	-	-	-	-	-	-	-	-	-	-	-	-
*Kans.	7	-	-	-	-	-	-	-	-	-	-	-	-
Mont.	168	0.	0	1.	2	5.	9	1.	2	0.	0	7.	13
Idaho	1,248	0.	0	t	+	10.	166	5.	83	0.	0	25.	415
Wyo.	460	0.	0	5.	27	5.	27	4.	21	-	-	14.	75
Colo.	1,091	0.	0	20.	276	t	+	t	+	1.	14	21.	290
N.M.	288	0.	0	-	-	-	-	-	-	1.	3	1.	3
*Ariz.	46	0.	0	-	-	-	-	-	-	-	-	-	-
Oreg.	6	0.	0	-	-	-	-	-	-	-	-	5.	+
Calif	4,081	0.	0	-	-	-	-	-	-	1.	41	1.	41
U. S.	11,122	t	+	3.2	377	1.8	216	1.	122	0.5	58	7.9	942

° Bags of 100 pounds.

* Omitted in calculations for U. S. percentage loss.

GREEN PEAS

Table 14. Green peas for manufacture; estimated reduction in yield due to bacterial blight (*Bacterium pisi*), Fusarium wilt (*Fusarium orthoceras pisi*), Ascochyta blight (*Mycosphaerella pinodes* and *Ascochyta* spp.); root rots (various organisms), and other diseases, 1936.

State	Production Short Tons	Estimated reduction in yield due to diseases									
		Bacterial		Fusarium		Ascochyta		Root Rots		All	
		Blight		Wilt		Blight		Diseases		Diseases	
		Short	%	Short	%	Short	%	Short	%	Short	%
		Tons		Tons		Tons		Tons		Tons	
Maine	1,910	-	-	-	-	t	+	t	+	t	+
N.Y.	13,180	-	-	t	+	t	+	8.	1,146	8.	1,146
Pa.	4,040	-	-	1.	48	t	+	15.	722	16.	770
Ohio	2,800	t	+	1.	29	0.5	15	2.	58	3.5	102
*Ind.	6,120	-	-	-	-	-	-	-	-	-	-
Ill.	12,300	-	-	-	-	-	-	1.	127	3.	381
Mich.	7,030	0.1	7	1.	72	0.1	7	1.	72	2.3	165
Wis.	43,200	t	+	1.	448	0.	0	2.	895	3.5	1,567
*Minn.	14,000	-	-	-	-	-	-	-	-	-	-
Iowa		0.	0	2.	+	0.	0	0.	0	2.	+
Del.	1,500	-	-	-	-	t	+	t	+	t	+
Md.	11,120	0.2	24	t	+	0.3	35	5.	588	5.5	647
Va.	3,020	t	+	-	-	-	-	2.	62	2.	62
Okla.		4.	+	2.	+	-	-	-	-	9.	+
Texas		t	+	t	+	0.	0	10.	+	15.	+
Mont.	2,140	t	+	t	+	t	+	8.	186	8.	186
Idaho		t	+	1.	+	0.	0	10.	+	11.	+
Wyo.		t	+	t	+	-	-	t	+	t	+
Colo.	3,510	t	+	0.	0	5.	240	20.	962	27.	1,298
Utah	12,060	-	-	t	+	-	-	5.	645	6.5	838
*Wash.	26,250	-	-	-	-	-	-	-	-	-	-
Oreg.	12,840	0.	0	t	+	1.	140	-	-	8.5	1,192
*Other											
States	10,360										
U. S.	187,380	t	31	0.4	597	0.3	437	3.9	5,463	6.	8,354

* Omitted in calculations for U. S. percentage loss.

** Includes California, Idaho, Iowa, Kansas, Nebraska, New Jersey, Oklahoma, Tennessee, Texas, and Wyoming.

Table 15. Green peas for market; estimated reduction in yield due to bacterial blight (Bacterium pisi), Fusarium wilt (Fusarium orthoceras pisi), Ascochyta blight (Mycosphaerella pinodes and Ascochyta spp.), root rots (various organisms), and other diseases, 1936.

Production		Estimated reduction in yield due to diseases									
State	1,000 Bushels	Bacterial Blight	Fusarium Wilt	Ascochyta Blight	Root Rots	All Diseases					
		% Bushels	% Bushels	% Bushels	% Bushels	% Bushels	% Bushels	% Bushels	% Bushels	% Bushels	% Bushels
Maine		-	-	-	-	t	+	t	+	t	+
Mass.		0.5	+	4.	+	2.	+	25.	+	31.5	+
Conn.		-	-	-	-	t	+	t	+	1.5	+
N. Y.	321	-	-	t	+	t	+	8.	28	8.	28
*N. J.	180	-	-	-	-	-	-	-	-	-	-
Pa.		-	-	1.	+	t	+	15.	+	16.	+
Ohio		t	+	1.	+	0.5	+	2.	+	3.5	+
Ill.		-	-	-	-	-	-	1.	+	3.	+
Mich.		0.1	+	1.	+	0.1	+	1.	+	2.3	+
Wis.		t	+	1.	+	0.	0	2.	+	3.5	+
Iowa		0.	0	2.	+	0.	0	0.	0	2.	+
N. D.		-	-	t	+	0.	0	0.5	+	0.5	+
Del.		-	-	-	-	t	+	t	+	t	+
Md.	11	0.2	+	t	+	0.3	+	5.	1	5.5	1
Va.	88	t	+	-	-	-	-	2.	2	2.	2
N. C.	190	1.	2	3.	6	3.	6	1.	2	10.	20
*S. C.	175	-	-	-	-	-	-	-	-	-	-
Ga.		-	-	-	-	5.	+	-	-	10.	+
Fla.	508	1.	6	-	-	1.	6	10.	61	17.	104
*Miss.	192	t	+	-	-	-	-	-	-	-	-
La.	52	-	-	-	-	2.	1	-	-	2.	1
Okla.		4.	+	2.	+	-	-	-	-	9.	+
Texas	312	t	+	t	+	0.	0	10.	37	15.	55
Mont.		t	+	t	+	t	+	8.	+	8.	+
Idaho	440	t	+	1.	5	0.	0	10.	49	11.	54
Wyo.		t	+	t	+	-	-	t	+	t	+
Colo.	760	t	+	0.	0	5.	52	20.	208	27.	281
*Ariz.	34	-	-	-	-	-	-	-	-	-	-
Utah		-	-	t	+	-	-	5.	+	6.5	+
*Wash.	1,140	-	-	-	-	-	-	-	-	-	-
Oreg.	105	0.	0	t	+	1.	1	-	-	8.5	10
*Calif.	4,660	-	-	-	-	-	-	-	-	-	-
U. S.	9,168	0.2	8	0.3	11	2.	66	11.6	388	16.6	556

* Bushels of 30 pounds.

* Omitted in calculations for U. S. percentage loss.

COTTON

Table 16. Estimated reduction in yield of cotton due to Anthracnose (*Glomerella gossypii*), angular leaf spot (*Bacterium malvacearum*), wilt (*Fusarium vasinfectum*), root knot (*Heterodera marioni*), root rot (*Phytophthora omnivorum*), malnutrition (non-parasitic), and other diseases, 1936.

State:	Production 1,000 Bales	Estimated reduction in yield due to diseases											
		Anthracnose	Angular	Wilt	Root Knot	Root Rot	Malnutrition	All Diseases					
		:1,000: :Bales:	:1,000: :Bales:	:1,000: :Bales:	:1,000: :Bales:	:1,000: :Bales:	:1,000: :Bales:	:1,000: :Bales:					
*Mo.	310	-	-	-	-	0.	0	-	-	-	-	-	-
Va.	34	2.	4.	-	-	0.	0	1.	+	8.	3	226	226
N.C.	612	t	3.	5.	2.	17	0.	0	17.	142	27.	-	-
*S.C.	820	-	-	-	-	-	0.	0	-	-	-	-	-
Ga.	1,090	0.1:	2.	8.	0.5:	6	0.	0	2.	26	15.6:	201	201
*Fla.	32	-	-	-	-	-	0.	0	-	-	-	-	-
Tenn.	431	t	t	4.	-	-	0.	0	-	-	4.	18	18
Ala.	1,140	t	t	8.	0.5:	7	0.	0	6.	83	17.5:	242	242
Miss.	1,910	t	t	3.	-	-	0.	0	2.	42	8.	166	166
Ark.	1,295	t	1.	15	1.	15	t	+	3.	46	15.	228	228
La.	763	2.	1.	4.	t	+	0.	0	5.	44	14.	124	124
Okla.	290	-	-	-	1.	3.	3.	10	2.	7	11.	36	36
Texas	2,945	t	2.	72	0.5:	13	8.	289	t	+	18.5:	668	668
N.M.	110	-	3.	4	-	-	0.1:	+	-	-	6.1:	8	8
Ariz.	170	-	1.	2	0.5:	1	5.	10	4.	8	12.5:	25	25
Calif.	440	-	-	-	1.	5	-	-	-	-	3.	14	14
* All		:	:	:	:	:	:	:	:	:	:	:	:
Others:	15	:	:	:	:	:	:	:	:	:	:	:	:
U. S.	12,407	0.2:	20 : 1.2:	155 : 4.8:	641 : 0.5:	72 : 2.3:	309 : 3.	398 : 14.8:	1,959				

* Omitted in calculations for U. S. percentage loss.

o 500 pounds.

SUGAR BEET

Table 17. Estimated reduction in yield of sugar beet due to nematode (*Heterodera schachtii*), curly top (virus), leaf spot (*Cercospora beticola*), Phoma rot (*Phoma betae*), and other diseases, 1936.

State	Production:										
	1,000	Sugar Beet									All
	Short	Nematode	Curly-top	Leaf Spot	Phoma Rot	Diseases					
	Tons	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
	%	% Short	% Short	% Short	% Short	% Short	% Short	% Short	% Short	% Short	% Short
	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons
Ohio	272	0.	0	0.	0	1.5	5	0.5	2	12.	38
Mich.	936	0.	0	0.	0	0.1	1	1.5	15	5.1	51
Wis.		0.	0	0.	0	8.	+	t	+	8.	+
Minn.		0.	0	0.	0	2.	+	t	+	12.	+
Iowa		0.	0	0.	0	2.	+	1.	+	10.	+
Nebr.	783	1.	8	0.	0	t	+	-	-	5.	41
Mont.	649	t	+	t	+	1.	7	-	-	6.	42
Idaho	724	-	-	5.	38	-	-	-	-	5.	38
Wyo.	482	-	-	t	+	t	+	t	+	7.5	39
Colo.	2,227	1.	25	t	+	5.	125	t	+	11.	275
Utah	511	0.5	3	5.	27	t	+	0.5	3	6.5	36
Calif.	1,939	5.	111	5.	111	-	-	-	-	13.	289
Other											
States	654										
U. S.	9,177	1.6	147	1.9	176	1.5	138	0.2	20	9.1	849

Table 18. Estimated reduction in yield of pear due to blight (*Bacillus amylovorus*), scab (*Venturia pyrina*), leaf blight (*Fabraea maculata* and *Mycosphaerella sentina*), and other diseases, 1936.

State	Estimated reuction in yield due to diseases									
	Production:	Blight		Scab		Leaf Blight		All Diseases		
	1,000 : Bushels	1,000 : %	1,000 : Bushels	1,000 : %	1,000 : Bushels	1,000 : %	1,000 : Bushels	1,000 : %	1,000 : Bushels	
Maine	5	-	-	-	-	-	-	-	-	-
N. H.	4	-	-	-	-	-	-	-	-	-
Vt.	2	-	-	-	-	-	-	-	-	-
Mass.	42	5.	2	t	+	t	+	5.	2	
R. I.	7	-	-	t	+	-	-	-	-	-
Conn.	18	2.	+	0.5	+	0.5	+	4.	1	
N. Y.	776	5.	41	t	+	t	+	5.	41	
N. J.	94	-	-	-	-	-	-	-	-	-
Pa.	279	15.	52	1.	3	2.	7	19.	65	
Ohio	174	3.5	6	0.5	1	0.1	+	4.1	7	
Ind.	56	8.	5	t	+	2.	1	10.	6	
Ill.	185	10.	21	0.	0	1.	2	11.	23	
Mich.	763	2.	16	t	+	0.	0	2.	16	
Wis.		2.	+	5.	+	0.	0	7.	+	
Minn.		t	+	-	-	-	-	t	+	
Iowa	33	0.	0	0.	0	0.	0	0.	0	
Mo.	67	-	-	-	-	t	+	t	+	
Nebr.	13	-	-	-	-	-	-	-	-	
Kans.	22	-	-	-	-	-	-	-	-	
Del.	38	t	+	-	-	8.	3	8.	3	
Md.	110	8.	10	0.5	1	2.	2	10.5	13	
Va.	274	2.	6	t	+	t	+	2.5	7	
W. Va.	16	1.	+	1.	+	2.	+	5.	1	
N. C.	181	8.	17	0.	0	5.	11	16.	34	
S. C.	82	10.	9	0.	0	2.	2	12.	11	
Ga.	189	10.	22	0.	0	2.	4	12.	26	
Fla.	67	10.	7	0.	0	-	-	10.	7	
Ky.	50	8.	4	-	-	-	-	8.	4	
Tenn.	123	8.	11	-	-	-	-	8.	11	
Ala.	295	10.	33	-	-	-	-	10.	33	
Miss.	335	20.	87	-	-	-	-	23.	100	
Ark.	61	t	+	-	-	-	-	t	+	
La.	77	10.	9	-	-	-	-	10.	9	
Okla.	10	-	-	1.	+	1.	+	2.	+	
Texas	325	10.	38	0.	0	0.	0	15.	57	
Idaho	58	10.	7	0.	0	0.	0	11.	8	
Colo.	333	t	+	0.	0	0.	0	t	+	
N. M.	27	-	-	-	-	-	-	-	-	
Ariz.	11	-	-	-	-	-	-	-	-	
Utah	91	3.	3	-	-	-	-	4.	4	
Nev.	8	-	-	-	-	-	-	-	-	
Wash.	5,400	t	+	-	-	-	-	t	+	
Oreg.	3,760	t	+	-	-	-	-	t	+	
Calif.	9,667	t	+	-	-	-	-	t	+	
U. S.	24,128	1.6	406	t	5	0.1	32	1.9	489	

APPLE

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Table 19. Estimated reduction in yield of apple due to bitter rot (*Glomerella cingulata*), black rot (*Physalospora obtusa*), blotch (*Phyllosticta solitaria*), cedar rust (*Gymnosporangium* spp.), blight (*Bacillus amylovorus*), scab (*Venturia inaequalis*), and other diseases, 1936.

:Production:		Estimated reduction in yield due to diseases											
State:	1,000	Bitter Rot	Black Rot	Blotch	Cedar Rust	Blight	Scab	All Diseases					
	Bushels	: 1,000	: 1,000	: 1,000	: 1,000	: 1,000	: 1,000	: 1,000	: 1,000	: 1,000	: 1,000	: 1,000	: 1,000
		% :Bushels:	% :Bushels:	% :Bushels:	% :Bushels:	% :Bushels:	% :Bushels:	% :Bushels:	% :Bushels:	% :Bushels:	% :Bushels:	% :Bushels:	% :Bushels:
Maine	576	-	-	-	-	-	-	-	-	-	-	-	-
N. H.	292	t	t	-	-	-	-	-	-	-	-	-	-
*Vt.	204	-	-	-	-	-	-	-	-	-	-	-	-
Mass.	1,716	t	1.	19	0.5	9	0.5	9	2.	38	9.	9.	169
R. I.	207	-	1.	2	2.	6	-	-	-	-	-	-	21
Conn.	796	t	1.	9	0	9	1.	9	2.5	21	2.	6.5	57
N. Y.	10,200	-	t	+	0	53	1.	107	2.	214	4.	4.5	481
N. J.	2,850	t	3.	92	+	+	2.	61	2.	61	7.	7.	214
Pa.	7,072	t	3.	267	+	44	3.	267	10.	890	20.5	1,824	
Ohio	2,660	t	0.1	3	0.5	14	2.5	70	1.5	42	4.7	132	
Ind.	487	t	t	+	3	16	5.	27	1.	5	9.	48	
Ill.	1,696	0.	1.	18	t	36	1.	18	1.	18	5.	90	
Mich.	6,864	0.	t	+	0	0	0.	+	2.	140	2.	140	
Wis.	1,100	0.	t	+	+	12	2.	24	4.	47	7.	83	
Minn.	454	-	-	-	+	2	t	+	0.5	2	1.	4	
Iowa	901	0.	1.	10	0.5	10	1.	10	5.	50	9.5	95	
Mo.	649	-	0.5	3	t	+	t	+	0.1	1	1.6	11	
N. D.	0.	0.	0.	0	0.	+	1.5	+	t	+	2.5	+	
*S. D.	20	-	-	-	-	-	-	-	-	-	-	-	-
*Nebr.	236	-	-	-	-	-	-	-	-	-	-	-	-
Kans.	225	-	-	-	-	-	-	-	1.	2	1.	88	
Del.	1,365	t	2.	29	-	-	t	+	3.	44	6.	170	
Md.	1,810	0.5	1.5	30	0.5	10	1.5	30	2.	40	8.5	583	
Va.	7,750	t	t	+	t	208	2.	167	1.5	125	7.	224	
W. Va.	3,520	t	t	+	t	+	1.	37	2.	75	6.	224	
N. C.	2,590	1.	t	+	1.	31	8.	247	1.	31	16.	494	

Apple (Continued)

:Production: Estimated reduction in yield due to diseases													
State	: 1,000	: Bitter Rot	: Black Rot	: Blotch	: Cedar Rust	: Blight	: Scab	: All Diseases					
: Bushels	: 1,000	: % : Bushels	: 1,000	: % : Bushels	: 1,000	: % : Bushels	: 1,000	: % : Bushels	: 1,000	: % : Bushels	: 1,000	: % : Bushels	: 1,000
: % : Bushels	: % : Bushels	: % : Bushels	: % : Bushels	: % : Bushels	: % : Bushels	: % : Bushels	: % : Bushels	: % : Bushels	: % : Bushels	: % : Bushels	: % : Bushels	: % : Bushels	: % : Bushels
S. C.	220	1	2	1	2	0.1	1	0.1	1	0.1	1	0.1	1
Ga.	851	1	9	2	18	0.1	1	0.1	1	0.1	1	0.1	1
Ky.	572	t	+	t	+	t	+	t	+	t	+	t	+
*Tenn.	1,140	-	-	-	-	-	-	-	-	-	-	-	-
*Ala.	576	-	-	-	-	-	-	-	-	-	-	-	-
*Miss.	160	-	-	-	-	-	-	-	-	-	-	-	-
*Ark.	455	0	0	t	+	t	+	t	+	t	+	t	+
*La.	14	-	-	-	-	-	-	-	-	-	-	-	-
*Okl.	15	-	-	10	2	20	4	5	6	3	1	33	7
Texas	105	t	+	0.1	+	2	+	5	1	0	+	10.1	12
Mont.	112	0	0	0	0	0	0	1	1	t	+	1	1
Idaho	3,102	0	0	0	0	0	0	0.5	16	t	+	2.5	80
*Wyo.	20	-	-	0	0	0	-	-	-	-	-	-	-
Colo.	1,972	0	0	0	0	0	0	t	+	0	0	t	+
*N. M.	812	-	-	0	0	0	-	-	-	-	-	-	-
*Ariz.	70	-	-	0	0	0	-	-	-	-	-	-	-
Utah	703	-	-	0	0	0	-	-	-	-	-	-	-
*Nev.	53	-	-	0	0	0	-	-	-	-	-	-	-
*Wash.	27,520	-	-	0	0	0	-	-	-	-	-	-	-
*Oreg.	4,368	-	-	0	0	0	-	-	-	-	-	-	-
*Calif.	9,946	-	-	0	0	0	-	-	-	-	-	-	-
U. S.	108,031	0.1	52	0.7	504	0.1	58	0.6	440	1.6	1,119	2.8	1,917
													7.5

* Omitted in calculations for U. S. percentage loss.

Table 20. Estimated reduction in yield of peach due to leaf curl (*Taphrina deformans*), brown rot (*Sclerotinia fructicola*), virus diseases, scab (*Cladosporium carpophilum*), and other diseases, 1936.

State:	Production 1,000	Estimated reduction in yield due to diseases									
		Leaf Curl		Brown Rot		Virus Diseases		Scab		All Diseases	
		1,000		1,000		1,000		1,000		1,000	
		%	Bushels	%	Bushels	%	Bushels	%	Bushels	%	Bushels
*N.H.	8	-	-	-	-	-	-	-	-	-	-
Mass.	105	0.5	1	1	1	1	1	1	1	3.5	4
R.I.	28	1	+	2	1	-	-	t	+	3	1
Conn.	158	0.5	1	1.5	2	0.5	1	1	2	4.5	8
N.Y.	700	t	+	1	7	t	+	t	+	1	7
N.J.	1,380	1	15	6	89	t	+	t	+	7	104
Pa.	576	1	6	6	39	0.5	3	1	6	10.5	67
Ohio	168	t	+	0.1	+	t	+	0.5	1	0.6	1
*Ind.	12	-	-	-	-	-	-	-	-	-	-
Ill.	315	t	+	1	3	-	-	0	0	1	3
Mich.	1,334	0	0	t	+	1	13	t	+	1	13
Iowa	10	0	0	0	0	0	0	0	0	0	0
Mo.	66	t	+	-	-	-	-	-	-	t	+
*Nebr.	4	-	-	-	-	-	-	-	-	-	-
*Kans.	17	-	-	-	-	-	-	-	-	-	-
Del.	514	0.5	3	1	5	t	+	1	5	2.5	13
Md.	363	2	8	6	24	0.5	2	1	4	9.5	38
Va.	570	1	6	2	12	t	+	1	6	4	24
W.Va.	100	2	2	1	1	t	+	1	1	5	5
N.C.	1,800	t	+	7	147	-	-	1	21	14	294
*S.C.	1,525	-	-	-	-	-	-	-	-	-	-
Ga.	5,751	t	+	7	458	-	-	0.1	7	12.1	792
*Fla.	67	-	-	-	-	-	-	-	-	-	-
Ky.	110	t	+	2	2	0	0	t	+	2	2
Tenn.	840	-	-	2	17	-	-	-	-	2	17
Ala.	1,040	-	-	2	21	-	-	-	-	2	21
Miss.	759	-	-	5	40	-	-	-	-	5	40
Ark.	825	t	+	t	+	-	-	t	+	t	+
*La.	228	-	-	-	-	-	-	-	-	-	-
Okla.	16	0	0	10	2	-	-	-	-	10	2
Texas	1,200	t	+	2	30	2	30	5	74	19	282
Idaho	139	t	+	0	0	0	0	0	0	7	10
Colo.	1,213	0	0	1	13	3	38	0	0	4	51
*N.M.	65	-	-	-	-	-	-	-	-	-	-
*Ariz.	47	-	-	-	-	-	-	-	-	-	-
Utah	748	-	-	-	-	-	-	-	-	15	132
*Nev.	8	-	-	-	-	-	-	-	-	-	-
*Wash.	1,424	-	-	-	-	-	-	-	-	-	-
Oreg.	258	-	-	12.5	37	-	-	-	-	12.5	37
*Calif.	21,627	-	-	-	-	-	-	-	-	-	-
U. S.	46,118	0.2	42	4.1	951	0.4	88	0.6	128	8.6	1,968

* Omitted in calculations for U. S. percentage loss.

CHERRY

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Table 21. Estimated reduction in yield of cherry due to brown rot (*Sclerotinia fructicola*), leaf spot (*Coccomyces hiemalis*), and other diseases, 1936.

State	Production: Tons	Estimated reduction in yield due to diseases					
		Brown Rot		Leaf Spot		All Diseases	
		%	Tons	%	Tons	%	Tons
Mass.		10.	+	0.5	+	10.5	+
R. I.		25.	+	t	+	25.	+
Conn.		2.	+	1.	+	3.5	+
N. Y.	12,840	t	+	t	+	1.	130
N. J.		2.	+	4.	+	7.	+
Pa.	3,630	10.	437	5.	219	17.	743
Ohio	770	0.1	1	0.2	2	0.3	3
Ill.		t	+	t	+	t	+
Mich.	27,450	t	+	t	+	t	+
Wis.	1,700	t	+	4.	71	4.	71
Iowa		0.	0	1.	+	1.	+
Del.		1.	+	5.	+	6.	+
Md.		3.	+	3.	+	6.	+
Va.		2.	+	3.	+	5.	+
W. Va.		1.	+	5.	+	7.	+
N. C.		15.	+	t	+	17.	+
Ark.		t	+	t	+	1.	+
Okla.		2.	+	2.	+	4.	+
Texas		t	+	-	-	1.	+
*Mont.	130	-	-	-	-	-	-
Idaho	1,890	0.	0	0.	0	1.	19
Colo.	810	0.	0	0.	0	0.	0
Utah	5,330	-	-	-	-	5.	281
*Wash.	15,000	-	-	-	-	-	-
Oreg.	14,500	12.5	2,071	-	-	12.5	2,071
*Calif.	22,000	-	-	-	-	-	-
U. S.	106,050	3.2	2,509	0.4	292	4.3	3,318

* Omitted in calculations for U. S. percentage loss.

Table 22. Estimated reduction in yield due to black rot (*Guignardia bidwellii*), and other diseases, 1936.

East of Rocky Mountains									
: Estimated reduction in yield due to diseases									
: Production: Black Rot : Other Diseases: All Diseases									
State	Tons	%	Tons	%	Tons	%	Tons	%	Tons
*Maine	10	-	-	-	-	-	-	-	-
*N. H.	20	-	-	-	-	-	-	-	-
*Vt.	10	-	-	-	-	-	-	-	-
Mass.	320	2.	7	4.	14	6.	21		
R. I.	200	1.	2	t	+	1.	2		
Conn.	1,160	1.	12	1.	12	2.	24		
N. Y.	41,800	1.	440	4.	1,760	5.	2,200		
N. J.	2,600	5.	144	5.	144	10.	288		
Pa.	15,800	15.	2,855	2.	381	17.	3,236		
Ohio	22,000	1.5	335	0.1	22	1.6	357		
Ind.	1,700	t	+	t	+	t	+		
Ill.	3,500	t	+	-	-	t	+		
Mich.	37,400	t	+	1.	378	1.	378		
Wis.	240	1.	2	2.	5	3.	7		
Minn.	210	0.	0	t	+	t	+		
Iowa	3,200	t	+	t	+	t	+		
Mo.	4,700	t	+	-	-	t	+		
*Nebr.	1,000	-	-	-	-	-	-		
*Kans.	1,100	-	-	-	-	-	-		
Del.	2,500	3.	77	t	+	3.	77		
Md.	690	8.	61	2.	15	10.	76		
Va.	1,500	15.	281	5.	94	20.	375		
W. Va.	540	3.	18	7.	42	10.	60		
N. C.	4,500	3.	147	5.	245	8.	392		
*S. C.	980	-	-	-	-	-	-		
Ga.	770	10.	103	15.	154	25.	257		
Fla.	1,090	25.	389	5.	78	30.	467		
Ky.	950	t	+	-	-	t	+		
Tenn.	1,050	t	+	-	-	t	+		
Ala.	580	5.	32	5.	32	10.	64		
Miss.	230	15.	46	10.	31	25.	77		
Ark.	10,600	t	+	1.	107	1.	107		
*La.	60	-	-	-	-	-	-		
Okla.	1,000	10.	125	10.	125	20.	250		
Texas	1,500	15.	281	5.	94	20.	375		
Reporting:									
Area	165,510	3.1	5,357	2.2	3,733	5.3	9,090		

* Omitted in calculations for total percentage loss.

Table 23. Estimated reduction in yield of strawberry due to leaf spot (*Mycosphaerella fragariae*), leaf scorch (*Diplocarpon earliana*), dwarf (*Aphelenchoides fragariae*), black root and root rot (various causes), and other diseases and estimated loss from fruit rots, 1936.

Estimated reduction in yield due to diseases													
State:	Production : 1,000 : Crates:	Leaf Spot : 1,000 : %	Leaf Scorch : 1,000 : %	Dwarf : 1,000 : %	Black Root & Root Rots : 1,000 : %	All Diseases : 1,000 : %	Fruit Rots : 1,000 : %						
Maine:	t	+	-	-	-	t	+	-	-	-	-	-	-
Mass.:	1.	+	-	-	t	+	10.	+	11.	+	10.	+	+
R.I.:	5.	+	-	-	-	-	-	5.	+	-	-	-	-
Conn.:	1.	+	1.	+	1.	+	-	-	4.5	+	-	-	-
*N.Y.:	252	t	+	-	-	-	-	-	-	-	-	-	-
*N.J.:	187	-	-	-	-	-	-	-	-	-	-	-	-
Pa.:	286	1.	3	0.5	2	0.	0	10.	32	11.5	37	-	-
Ohio:	240	0.2	1	-	-	0.	0	1.	2	1.2	3	-	-
*Ind.:	135	t	+	-	-	0.	0	-	-	-	-	-	-
Ill.:	252	t	+	0.	0	0.	0	5.	13	5.	13	-	-
Mich.:	770	t	+	t	+	0.	0	10.	86	10.	86	-	-
Wis.:	94	t	+	t	+	0.	0	4.	4	8.	8	-	-
Minn.:	t	+	-	-	0.	0	25**	+	25.	+	-	-	-
Iowa:	30	3.	1	0.	0	0.	0	1.	+	5.	2	-	-
Mo.:	301	t	+	-	-	-	-	-	1.	3	-	-	-
Kans.:	40	t	+	-	-	-	-	-	t	+	1.	+	+
Del.:	182	t	+	t	+	-	-	-	10.	20	-	-	-
Md.:	338	1.	4	1.5	6	t	+	7.	26	9.5	36	3.	10
Va.:	427	10.	61	5.	31	-	-	15.	92	30.	184	-	-
W.Va.:	t	+	t	+	-	-	-	2.	+	5.	+	-	-
N.C.:	519	3.	19	3.	19	5.	31	-	-	16.	100	-	-
*S.C.:	38	-	-	-	-	-	-	-	-	-	-	-	-
*Ga.:	41	-	-	-	-	-	-	-	-	-	-	-	-
*Fla.:	445	-	-	-	-	-	-	-	-	-	25.	111	-
Ky.:	189	t	+	-	-	0.	0	-	-	t	+	-	-
*Tenn.:	437	-	-	-	-	-	-	-	-	-	-	-	-
*Ala.:	184	-	-	-	-	-	-	-	-	-	-	-	-
*Miss.:	22	-	-	-	-	-	-	-	-	-	-	-	-
Ark.:	496	t	+	t	+	t	+	-	-	1.	5	-	-
La.:	1,243	10.	148	2.	30	t	+	-	-	16.	237	3.	37
Okla.:	15	0.5	+	3.	1	-	-	15.	3	28.5	6	-	-
Texas:	156	1.	2	t	+	t	+	10.	19	16.	30	-	-
Mont.:	t	+	0.	0	0.	0	0	25.	+	25.	+	-	-
Idaho:	t	+	0.	0	0.	0	0	5.	+	15.	+	-	-
Wyo.:	t	+	0.	0	0.	0	0	t	+	t	+	-	-
Colo.:	0.	0	0.	0	0.	0	0	15.	+	15.	+	-	-
Utah:	55	-	-	-	-	0.	0	15.	11	23.	17	-	-
*Wash.:	800	-	-	-	-	-	-	-	-	-	-	-	-
*Oreg.:	1,142	-	-	-	-	-	-	-	-	-	-	-	-
*Calif.:	694	-	-	-	-	-	-	-	-	-	-	-	-
U.S.:	10,010	3.7	239	1.4	89	0.5	31	4.5	288	12.3	787	-	-

* Omitted in calculations for U. S. percentage loss.

** Includes winter injury.

